

Title (en)

Dowel, in particular dowel for heating apparatus

Title (de)

Dübel, insbesondere Heizkörper-Dübel

Title (fr)

Cheville, en particulier cheville de radiateur

Publication

EP 2022991 A3 20110427 (DE)

Application

EP 08012266 A 20080708

Priority

DE 102007037361 A 20070808

Abstract (en)

[origin: EP2022991A2] The dowel has a dowel spreading cone (2) formed of two lobes (18, 18'), lying opposite to one another diametrically. The lobes are connected with each other by a sectional unit (16) and form an inner spreading region (24) and an outer cone (25). An inner winding contacting a spreading screw (3) is formed in the sectional unit. The sectional unit has lateral protruding segments (19, 19') formed as an anti-twist device between spreading bars (29, 29') running parallel to a mid longitudinal axis (5).

IPC 8 full level

F16B 13/06 (2006.01)

CPC (source: EP)

F16B 13/066 (2013.01); **F16B 13/0858** (2013.01)

Citation (search report)

- [AD] DE 4010082 A1 19911002 - TOGE DUEBEL A GERHARD GMBH [DE]
- [A] EP 0421104 A1 19910410 - TOGE DUEBEL A GERHARD GMBH [DE]
- [A] DE 2505402 A1 19760819 - TORNADO GMBH
- [AD] DE 19524983 A1 19970109 - WUERTH ADOLF GMBH & CO KG [DE]
- [A] US 1305000 A 19190527

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2022991 A2 20090211; **EP 2022991 A3 20110427**; **EP 2022991 B1 20111214**; AT E537368 T1 20111215; DE 102007037361 A1 20090226; DE 102007037361 B4 20100610

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